

United States Patent and Trademark Office

CAC STATES DEPARTM

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/533,726	10/25/2006	Rajiv Khanna	0069518-000002	7355	
21839 BUCHANAN	7590 07/10/2007 INGERSOLL & ROONE	EXAM	EXAMINER		
POST OFFICE BOX 1404			LUCAS, ZA	LUCAS, ZACHARIAH	
ALEXANDRIA, VA 22313-1404			ART UNIT	PAPER NUMBER	
			1648		
			MAIL DATE	DELIVERY MODE	
			07/10/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)				
	10/533,726	KHANNA ET AL.				
Office Action Summary	Examiner .	Art Unit				
	Zachariah Lucas	1648				
The MAILING DATE of this communication ap Period for Reply	ppears on the cover sheet with	the correspondence address				
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING I - Extensions of time may be available under the provisions of 37 CFR 1 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statu Any reply received by the Office later than three months after the mailinearned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICA .136(a). In no event, however, may a rep d will apply and will expire SIX (6) MONTH te, cause the application to become ABA	ATION. ly be timely filed HS from the mailing date of this communication. NDONED (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 25 (<u>October 2006</u> .					
2a) ☐ This action is FINAL . 2b) ☐ Th	This action is FINAL . 2b) This action is non-final.					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under	Ex parte Quayle, 1935 C.D.	11, 453 O.G. 213.				
Disposition of Claims						
4)	awn from consideration.	election requirement.				
Application Papers						
9) ☐ The specification is objected to by the Examir	ner.					
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.						
Applicant may not request that any objection to the		·				
Replacement drawing sheet(s) including the corre 11) The oath or declaration is objected to by the E	, -,	• •				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreig a) All b) Some * c) None of: 1. Certified copies of the priority documer 2. Certified copies of the priority documer 3. Copies of the certified copies of the pri application from the International Burea * See the attached detailed Office action for a list	nts have been received. nts have been received in Apporting the ority documents have been read (PCT Rule 17.2(a)).	plication No eceived in this National Stage				
Attachment(s)	_					
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 	Paper No(s)/	mmary (PTO-413) Mail Date ormal Patent Application -				

Application/Control Number: 10/533,726

Art Unit: 1648

DETAILED ACTION

Page 2

Election/Restrictions

1: This application contains claims directed to more than one species of the generic invention. These species are deemed to lack unity of invention because they are not so linked as to form a single general inventive concept under PCT Rule 13.1.

The species are as follows:

Applicant is required to elect one of the following:

- (a) an EBV epitope comprising the sequence of SEQ ID NO: 4 (claims 1, 12, 13, 27, 34, 36, and 42-46);
- (b) an EBV epitope comprising the sequence of SEQ ID NO: 5 (claims 1, 12, 13, 27, 34, 36, and 42-46);
- (c) an EBV epitope comprising the sequence of SEQ ID NO: 6 (claims 1, 12, 13, 27, 34, 36, and 42-46);
- (d) an EBV epitope comprising the sequence of SEQ ID NO: 7 (claims 1, 12, 13, 27, 34, 36, and 42-46);
- (e) an EBV epitope comprising the sequence of SEQ ID NO: 8 (claims 1, 12, 13, 27, 34, 36, and 42-46); or
 - (f) an EBV epitope comprising the sequence of SEQ ID NO: 3 (claim 11).
- If (a) is elected, Applicant is required to elect one of SEQ ID NOs: 9-12 (each corresponding to claims 2 and 7-9 in addition to the claims corresponding to SEQ ID NO: 4); and if SEQ ID NO: 11 is elected, election is further required to one of SEQ ID NOs: 13 or 14 (each also found in claim 7).
- If (b) is elected, Applicant is required to elect one of SEQ ID NOs: 16 (including SEQ ID NOs: 18 and 19, found in claim 7) or 17 (each of SEQ ID NOs: 16 and 17 corresponding to claims 3 and 7-9 in addition to the claims corresponding to SEQ ID NO: 5).
- If (c) is elected, Applicant is required to elect one of SEQ ID NOs: 21-24 (where SEQ ID NO: 26 is included with subsequence SEQ ID NO: 23- each of 22-24 corresponding to claims 4 and 7-9 in addition to the claims corresponding to SEQ ID NO: 6; and claim 21 corresponding to claims 4, 7-11, 14-17, 28, 29, 37, and 38 in addition to the claims corresponding to SEQ ID NO: 6) or SEQ ID NO: 1 (corresponding to claims 9, 10, and 11); and

Art Unit: 1648

if SEQ ID NO: 21 is elected, election is further required to one of SEQ ID NOs: 41-43 (claim 11); and

if SEQ ID NO: 1 is elected, election is further required to one of SEQ ID NOs: 49 or 50 (claim 11).

- If (d) is elected, Applicant is required to elect one of SEQ ID NOs: 29-31 (each of 29 and 30 corresponding to claims 4 and 7-9 in addition to the claims corresponding to SEQ ID NO: 6; and with SEQ ID NO: 30 corresponding to claims 5, 7-11, 14-17, 28, 29, 37, and 38 in addition to the claims corresponding to SEQ ID NO: 6) or 34 (claim 7); and if either of SEQ ID NOs: 29 or 30 is elected, election is further required to one of SEQ ID NOs: 32, 33, or 35.
- If (e) is elected, Applicant is required to elect one of SEQ ID NOs: 2 or 37 (each corresponding to claims 6 and 7-9 in addition to the claims corresponding to SEQ ID NO: 8).
- If (f) is elected, Applicant is required to elect one of SEQ ID NOs: 44, 47, or 48 (each found in claim 11).

Further, Applicant is also required to elect one of the target diseases of claim 42 identified as:

- (i) a B-cell non-Hodgkin's lymphoma,
- (ii) a T-cell non-Hodgkin's lymphoma,
- (ii) Hodgkin's lymphoma, or
- (ii) a lymphoepithelioma-like carcinoma (including NPC in claim 43).

Note- A linker sequence will be examined with an elected subsequence (except that a single linker sequence from SEQ ID NO: 32, 33, and 35 must be elected for either of SEQ ID NO: 29 or 30 as indicated above).

SEQ ID NO: 13 (claim 7) links SEQ ID NOs: 10 and 11.

SEQ ID NO: 14 (claim 7) links SEQ ID NO: 11 and 12.

SEQ ID NO: 15 (claim 7) links SEQ ID NO: 9-12, and encompasses SEQ ID NOs: 13 and 14.

SEQ ID NO: 20 (claim 7) links SEQ ID NOs: 16 and 17.

SEQ ID NO: 25 (claim 7) links SEQ ID NOs: 21, 22, and 24.

SEQ ID NO: 27 (claim 7) links SEQ ID NOs: 21-24, and encompasses SEQ ID NO: 25.

SEQ ID NO: 28 (claims 7-9) links SEQ ID NOs:29 and 30.

SEQ ID NO: 32 (claim 7) links SEQ ID NOs: 29-31, and encompasses SEQ ID NO: 28.

SEQ ID NO: 33 (claim 7) links SEQ ID NOs: 29 and 30, and encompasses SEQ ID NO: 28.

SEQ ID NO: 35 (claim 7) links SEQ ID NOs: 29 and 30, and encompasses SEQ ID NO: 28.

SEQ ID NO: 36 (claim 7) links SEQ ID NOs: 29-31 and 34; and encompasses SEQ ID NOs: 28, 32, 33, and 35.

SEQ ID NO: 39 (claim 7) links SEQ ID NOs: 2 and 37.

SEQ ID NO: 81 (claims 17 and 29) links SEQ ID NOs: 21 and 30.

Application/Control Number: 10/533,726 Page 4

Art Unit: 1648

Further, if SEQ ID NO: 30 is elected, the variant of SEQ ID NO: 40 will be examined therewith.

2. Applicant is required, in reply to this action, to elect a single species to which the claims shall be restricted if no generic claim is finally held to be allowable. The reply must also identify the claims readable on the elected species, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered non-responsive unless accompanied by an election.

Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which are written in dependent form or otherwise include all the limitations of an allowed generic claim as provided by 37 CFR 1.141. If claims are added after the election, applicant must indicate which are readable upon the elected species. MPEP § 809.02(a).

- 3. The claims are deemed to correspond to the species as indicated in the listing above. The following claim(s) are generic: No claims are generic.
- 4. The species listed above do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, the species lack the same or corresponding special technical features for the following reasons: each of the species represents a distinct CTL epitope from EBV. EBV epitopes generally were known in the art. See e.g. WO 99/02550, claim 3 (reference of record in the May 2005 IDS). Thus, only common feature of the peptides (i.e. that they are EBV CTL epitopes) is not a special technical feature over the prior art. Similarly, the different diseases to be treated each share in common only that they are being treated by EBV peptides. Such is not a special technical feature over the art as shown by claim 20 of the WO reference. Unity is therefore lacking.

Conclusion

5. Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the

Application/Control Number: 10/533,726 Page 5

Art Unit: 1648

application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Zachariah Lucas whose telephone number is 571-272-0905. The examiner can normally be reached on Monday-Friday, 8 am to 4:30 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Bruce Campell can be reached on 571-272-0974. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Z. Lucas/ Patent Examiner, AU 1648